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(Amended) Claims

1. A butterfly valve for controlling a gas pressure, in particular inside a cabin of an aircraft, comprising:

a valve housing (10) having a longitudinal axis (11) and defining a flow path for a gas along the longitudinal axis (11);

a shaft (20) having a rotation axis (21); and

a closure member (30) connected to the shaft (20);

the closure member (30) being pivotally mounted in the valve housing (10) for rotation about the rotation axis (21) between an open position allowing the gas to flow through the valve housing (10) and a closed position preventing the gas from flowing through the valve housing (10);

the closure member (30) consisting of a first disk (40) and a complementary second disk (50) which abut against each other, the first disk (40) and the second disk (50) being symmetrically arranged with regard to a symmetric axis (31) extending at a predetermined angle of inclination (γ) to the rotation axis (21);

the first disk (40) and the second disk (50) comprising each an inner surface (46; 56), an outer surface (47; 57), and at least one contact face (43, 44, 45; 53, 54, 55) abutting against a corresponding contact face (53, 54, 55; 43, 44, 45) of the respective other disk (40; 50);

characterised in that the contact face comprises a main portion (44; 54) extending parallel to the symmetric axis (31) and at least one supple-

mentary portion (43; 53, 45, 55) extending from an end of the main portion (44; 54) to the inner surface (46; 56) or the outer surface (47, 57) at a predetermined angle (α , β).

- 5 2. The butterfly valve according to claim 1, **characterised in that** the first disk (40) and the second disk (50) comprise each a distal end (41; 51) having a first thickness between the inner surface (46; 56) and the outer surface (47; 57), and a proximal end (42; 52) having a second thickness between the inner surface (46; 56) and the outer surface (47; 57), the first thickness being greater than the second thickness.
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3. The butterfly valve according to claim 2, **characterised in that** the contact face (43, 44, 45; 53; 54, 55) extends from the proximal end (42; 52) towards the distal end (41; 51) covering between about 10 % and about
- 15 90 %, preferably about 50 %, of the inner surface (46; 56) along a vertical axis (12) extending orthogonal to the longitudinal axis (11) of the valve housing (10).
4. The butterfly valve according to any of the claims 1 to 3, **characterised in that** the contact face comprises a first supplementary portion (43; 53) extending from an upper end of the main portion (44; 54) to the inner surface (46; 56) at a first angle (α) and a second supplementary portion (45; 55) extending from an lower end of the main portion (44; 54) to the outer surface (47; 57) at a second angle (β).
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5. The butterfly valve according to claim 4, **characterised in that** the first angle (α) between the main portion (44; 54) and the first supplementary portion (43; 53) is less than about 90°.
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6. The butterfly valve according to claim 4 or 5, **characterised in that** the second angle (β) between the main portion (44; 54) and the second supplementary portion (45; 55) is less than about 90° .

5 7. The butterfly valve according to any of the claims 1 to 6, **characterised in that** the main portion (44; 54) extends along the vertical axis (12).

10 8. The butterfly valve according to any of the claims 1 to 7, **characterised in that** the first disk (40) and the second disk (50) comprise each an opening (48; 58), the openings (48; 58) being in alignment and accommodating the shaft (20).

15 9. The butterfly valve according to claim 8, **characterised in that** the opening (48; 58) extends at the angle of inclination (γ) to the main portion (44; 54) of the contact face.

10. The butterfly valve according to claim 8 or 9, **characterised in that** the shaft (20) is secured in the openings (48; 58) by positive locking.

20 11. The butterfly valve according to claim 10, **characterised in that** the shaft is configured as splined shaft (20).

25 12. The butterfly valve according to any of the claims 1 to 11, **characterised in that** the angle of inclination (γ) is less than about 15° , preferably between about 5° and about 10° .